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## PC-0032 US

What is claimed is:

- 1. An isolated cDNA encoding a protein having the amino acid sequence of SEQ ID NO:1 or SEQ ID NO:2.
- 2. An isolated cDNA encoding a protein having the amino acid sequence of SEQ ID NO:1.
- 3. An isolated cDNA encoding a protein having the amino acid sequence of SEQ ID NO:2.
- 4. An isolated cDNA selected from:
  - a) a nucleic acid sequence of SEQ ID NO:3 or SEQ ID NO:20 or the complement thereof;
- b) a fragment of SEQ ID NO:3 selected from SEQ ID NOs:4-11 or the complement thereof or a fragment of SEQ ID NO:20 selected from SEQ ID NOs:21-39 or the complement thereof; and
- c) a variant of SEQ ID NO:3 selected from SEQ ID NOs:12-19 or a variant of SEQ ID NO:20 selected from SEQ ID NOs:40-56.
- 5. A composition comprising the cDNA or the complement of the cDNA of claim 1.
- 6. A vector comprising the cDNA of claim 1.
- 7. A host cell comprising the vector of claim 6.
- 8. A method for using a cDNA to produce a protein, the method comprising:
  - a) culturing the host cell of claim 7 under conditions for protein expression; and
  - b) recovering the protein from the host cell culture.
- 9. A method for using a cDNA to detect expression of a nucleic acid in a sample comprising:
  - a) hybridizing the composition of claim 5 to nucleic acids of the sample, thereby forming hybridization complexes; and
  - b) comparing hybridization complex formation with a standard, wherein the comparison indicates expression of the cDNA in the sample.
- 10. The method of claim 9 further comprising amplifying the nucleic acids of the sample prior to hybridization.
- 11. The method of claim 9 wherein the composition is attached to a substrate.
- 12. The method of claim 9 wherein the cDNA is differentially expressed when compared with the standard and diagnostic of bladder transitional cell carcinoma.
- 13. A method of using a cDNA to screen a plurality of molecules or compounds, the method comprising:
  - a) combining the cDNA of claim 1 with a plurality of molecules or compounds under conditions to allow specific binding; and
  - b) detecting specific binding, thereby identifying a molecule or compound which specifically binds the cDNA.

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- 14. The method of claim 13 wherein the molecules or compounds are selected from DNA molecules, RNA molecules, peptide nucleic acids, artificial chromosome constructions, peptides, transcription factors, repressors, and regulatory molecules.
- 15. A purified protein or a portion thereof selected from:
  - a) an amino acid sequence of SEQ ID NO:1 or SEQ ID NO:2;
  - b) an antigenic epitope of SEQ ID NO:1 or SEQ ID NO:2; and
  - c) a biologically active portion of SEQ ID NO:1 or SEQ ID NO:2.
- 16. A composition comprising the protein of claim 15.
- 17. A method for using a protein to screen a plurality of molecules or compounds to identify at least one ligand, the method comprising:
  - a) combining the protein of claim 15 with the molecules or compounds under conditions to allow specific binding; and
  - b) detecting specific binding, thereby identifying a ligand which specifically binds the protein.
- 18. The method of claim 17 wherein the molecules or compounds are selected from DNA molecules, RNA molecules, peptide nucleic acids, peptides, proteins, mimetics, agonists, antagonists, antibodies, immunoglobulins, inhibitors, and drugs.
- 19. A method of using a protein to prepare and purify antibodies comprising:
  - a) immunizing a animal with the protein of claim 15 under conditions to elicit an antibody response;
  - b) isolating animal antibodies;
  - c) attaching the protein to a substrate;
  - d) contacting the substrate with isolated antibodies under conditions to allow specific binding to the protein;
  - e) dissociating the antibodies from the protein, thereby obtaining purified antibodies.
- 20. An antibody produced by the method of claim 19.
- 21. A method for using an antibody to diagnose conditions or diseases associated with expression of a protein, the method comprising:
- a) combining the antibody of claim 20 with a sample, thereby forming antibody:protein complexes; and
  - b) comparing complex formation with a standard, wherein the comparison indicates expression of the protein in the sample.
- 22. The method of claim 21 wherein expression is diagnostic of bladder transitional cell carcinoma.